

ABSTRACT

A transfer guide for a high-speed power transmission, which can cancel a change in a transmission chain speed so that smooth transmission timing can be realized and a driving power and vibration noises of the transmission chain can be significantly reduced. A curve track T for a transfer guide 100 for a high-speed power transmission disposed in a transfer position X2 just before a transmission chain, which is traveled at a fixed speed by pressing the chain on the inner circumferential side of the chain with a travel limiting guide R, is meshed with a sprocket S, which is rotated at a fixed speed, is defined along an movement passage of the roller C2 in the transfer position X2. Thus when three rollers C1, C2, and C3 in a transmission chain C, which are continued at desired chain pitches C_p , are to be meshed with a sprocket S while being opened on an outer circumferential side of the chain from a travel limiting guide R, in such an arrangement traveling state that always corresponds to a travel limiting position X1, a transfer position X2 and a meshing position X3, is defined along an movement passage of the roller C2 in the transfer position X2, an change in the speed generated in a roller in the transmission chain C, which meshes the sprocket S to perform polygonal motion, is canceled.